



FIVE STAR[®] CEMENT COAT

High Performance, Cement Based Coating

PRODUCT DESCRIPTION

Five Star Cement Coat is a one component, polymer modified, cementitious, concrete and masonry coating that creates a rigid waterproofing which resists chloride ion penetration. Five Star Cement Coat is applied in one or two coats by brush, roller or spray equipment.

ADVANTAGES

- One component/ease of use
- Abrasion resistant
- Resists chloride ion penetration
- Self-curing
- Brush, roller or spray applied
- Polymer modified

USES

- Concrete and masonry surfaces
- Vertical, overhead and horizontal applications
- Coating over newly repaired concrete to provide uniform finish and appearance
- Foundations
- Positive and negative side applications
- Protective coating for waterproofing, dampproofing and increased concrete durability

TECHNICAL SUPPORT

Five Star Products maintains the industry's foremost Engineering and Technical Support Group:

- Over 30 years of experience in concrete repair
- Technical Center staffed with experienced engineers available for consultation
- Design-A-Spec[™] for engineering specification assistance
- Experienced representatives for field service
- Corporate research laboratory available to customize products for unique applications

PACKAGING AND YIELD

Five Star Cement Coat is packaged in heavy-duty polyethylene lined bags weighing 65 lb (29.5 kg), yielding approximately five gallons (20 liters) of waterproofing material at maximum water.

THEORETICAL COVERAGE

100-150 sq ft/gal at an 8 mil thickness
50-75 sq ft/gal at a 16 mil thickness
Coverage is dependent upon surface roughness.

SHELF LIFE

Two years in original unopened packaging when stored in dry conditions. Higher humidity will reduce shelf life.

TYPICAL PROPERTIES AT 73°F (23°C)

	One Coat <u>16 mils</u>	Two 8 mil coats <u>Total 16 mils</u>
Funnel Test		
Initial Absorption	58 gal/1000 sq ft/day	22 gal/1000 sq ft/day
Permeability	5 gal/1000 sq ft/day	3 gal/1000 sq ft/day
Adhesion, ASTM D 4541		
Concrete 3000 psi		Substrate Failure
Mortar 2500 psi		Substrate Failure
Working Time		2 hours
Recoat Time		2 hours minimum

The data shown above reflect typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.



PLACEMENT GUIDELINES

1. **SURFACE PREPARATION:** All surfaces must be clean, structurally sound, free of oil, grease, laitance, loose materials and other contaminants. Mechanically roughen smooth surfaces to a medium sandpaper profile or rougher. Soak surfaces thoroughly with liberal quantities of potable water, leaving surface damp but free of excess water. Surfaces must be between 45°F and 90°F (7°C and 32°C) at time of application.
2. **MIXING:** Thoroughly mix Five Star Cement Coat with a mortar mixer or drill and paddle mixer, using only enough water to reach desired consistency. Mix for five minutes. Never exceed the maximum recommended amount of mixing water as stated on the package or add an amount that will cause segregation.
3. **METHODS OF PLACEMENT:** Two application coats are suggested for optimum performance.
Brush Application: Apply a minimum of two brush coats. Total application thickness should be a minimum of 16 mils with no pinholes or voids. Allow Five Star Cement Coat to harden for two hours before applying next coat.
Roller Applied: Apply in two coats using a suitable high quality roller in a manner to avoid runs and sagging to a total applied thickness of 16 mils minimum. Allow material to harden for two hours before applying next coat.
Spray Applied: Contact Five Star Products for detailed application guidelines.
4. **POST-PLACEMENT PROCEDURES:** Five Star Cement Coat is a self-curing product under normal field conditions. Protect Five Star Cement Coat from freezing, rain, hydrostatic pressure, and traffic until it reaches its normal 24 hour strength.
5. **CLEAN UP:** All tools and equipment may be cleaned with water before material hardens.
NOTE: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY. For more detailed placement procedures, refer to Design-A-Spec™ or call the Five Star Products Engineering and Technical Center at 800-243-2206.

LIMITATIONS

- Not for use over moving cracks.
- Never exceed the maximum water content as stated on the package or add an amount that will cause segregation.
- Temperature of substrate must be between 45°F and 90°F (7°C and 32°C) at time of installation and for 24 hours after placement.
- Maximum application thickness is 16 mils/coat. Thicker application may result in cracking.
- Where coating will be immersed, a 3 day minimum cure is required.
- Coating may watermark and effloresce from weathering.
- Not intended for use as an architectural coating.

CAUTION

Contains cementitious material and crystalline silica. International Agency for Research on Cancer has evaluated that there is sufficient evidence for the carcinogenicity of inhaled crystalline silica to humans. Take appropriate measures to avoid breathing dust. Avoid contact with eyes and contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Immediately call a physician. Wash skin thoroughly after handling. Keep product out of reach of children. **PRIOR TO USE, REFER TO MATERIAL SAFETY DATA SHEET.**

WARRANTY: "FIVE STAR PRODUCTS, INC. (FSP) PRODUCTS ARE MANUFACTURED TO BE FREE OF MANUFACTURING DEFECTS AND TO MEET FSP'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH FSP'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND FSP STANDARDS. HOWEVER, SHOULD THERE BE DEFECTS OF MANUFACTURING OF ANY KIND, THE SOLE RIGHT OF THE USER WILL BE TO RETURN ALL MATERIALS ALLEGED TO BE DEFECTIVE, FREIGHT PREPAID TO FSP FOR REPLACEMENT. THERE ARE NO OTHER WARRANTIES BY FSP OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. FSP SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING PUNITIVE, ACTUAL, REMOTE OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMS OF BREACH OF CONTRACT, BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. FSP SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS."

For worldwide availability, additional product information and technical support, contact your local Five Star distributor, local sales representative, or you may call Five Star's Engineering and Technical Center at 800-243-2206.

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